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Transmitted Via First Class Mail

December 9, 2005

523 Dove Way Social Circle, GA 30025

Re: Soil Sampling Data Summary Report for

523 Dove Way, Social Circle, GA

BBL Project #: 85533

Dear I

On August 23, 2005 and with your permission, Blasland, Bouck & Lee, Inc. (BBL) collected soil samples from your property located at 523 Dove Way in Social Circle, Georgia. These activities were performed on behalf of Exxon Mobil Corporation (ExxonMobil) to provide data to evaluate the potential impacts of a former fertilizer manufacturing plant whose facilities appear to have been located in the vicinity of the property.

All soil samples collected were tested in the field to determine the approximate levels of arsenic and lead, which research has shown may be related to past operations of the former fertilizer plant. Based on these field test results, select samples were submitted to, and analyzed by, a laboratory approved by the United States Environmental Protection Agency (USEPA).

The purpose of this letter is to describe the soil sampling activities that were performed at your property and to present the results. Also included are photos of the inspection that was performed to document the condition of your property at the time of sampling (Attachment 1): Copies of this report are being submitted to the USEPA.

#### Soil Sample Collection Activities

Prior to sampling, the locations of underground utilities were identified by a utility locating service to minimize the possibility of disrupting services to the property and protect the safety of the workers.

Two types of soil samples were collected from your property as follows:

• Surface soil samples were collected from 0 to 6 inches below ground surface from five locations in both the front and back yards. The five front yard surface samples were mixed together in equal amounts and then tested in the field to determine the approximate concentrations of arsenic and lead. Field testing was performed using a portable X-ray fluorescence (XRF) device. The front yard mixed sample was then sent to the laboratory for analysis. This process was repeated for the five backyard samples. All samples submitted to the laboratory were analyzed for metals (including arsenic and lead) and pH (soil acidity).



• Deeper soil samples were collected from one location in the front yard and one location in the back yard. The locations of these deeper soil samples are shown on Figure 1. At each location, soil samples were collected from 0.5 to 2 feet, 2 to 4 feet, 4 to 6 feet, and 6 to 8 feet below ground surface. These samples were tested in the field using the XRF device described above to determine the approximate concentrations of arsenic and lead. Based on these results, select samples were sent to the laboratory and analyzed for metals (including arsenic and lead) and pH (soil acidity).

A list of the soil samples collected from your property is provided in Table 1.

### Results of the Soil Sampling

The USEPA has established screening levels (i.e., levels that trigger additional assessment and evaluation) for metals. Field measurements and laboratory analytical results indicate that the concentrations of arsenic and lead are below the USEPA's screening levels of 27 milligrams per kilogram (mg/kg) and 400 mg/kg, respectively. Laboratory analytical results indicate that iron was detected above the USEPA screening level in two of the samples collected from your property. Laboratory analytical results for the soil samples collected from your property are provided in Table 2.

#### Conclusion

As described above, all soil samples collected at your property contained concentrations of arsenic and lead <u>below</u> USEPA's screening levels of 27 mg/kg and 400 mg/kg, respectively. According to USEPA, the arsenic and lead concentrations are protective of human health and the environment. Laboratory analytical results indicate that iron was detected above the USEPA screening level in two of the samples collected from your property. ExxonMobil is submitting these results to the USEPA. We will work with these agencies to determine what further actions (if any) are necessary for your property, and will keep you informed. Any necessary actions for your property will be described in the upcoming *Removal Action Delineation Report/Removal Action Work Plan* that will be prepared by BBL on behalf of ExxonMobil and reviewed and approved by USEPA. This plan will be prepared upon completion of all sampling activities required by USEPA.

Thank you once again for granting ExxonMobil access to your property to conduct these soil sampling activities.

Sincerely,	
BLASLAND, BOUCK & LEE, INC.	Information Redacted pursuant to 5 U.S.C. Section 552 (b)(6), Personal Privacy
Gao 76 benuam	Exemption 7(A) Interference with Enforcement Proceedings(B) Right to Fair Trial(C) Unwanted Invasion of Personal Privacy
Geoffrey G. Germann, P.E. Senior Engineer II	

GGG/cbc

#### Enclosures:

Table 1 - Summary of Analytical Program for Samples Collected from 523 Dove Way

Table 2 – Summary of Analytical Results for Detected Metals in Soil Samples Collected from 523 Dove Way

Figure 1 – Sample Location Map for 523 Dove Way

#### Attachments:

Attachment 1 – Photographs

cc:

D. Andrews, USEPA

B. Frink, ExxonMobil

R. Wallis, ExxonMobil

M. Ross, ExxonMobil

Information Redacted pursuant to 5 U.S.C. Section 552 (b)(6), Personal Privacy

Exemption 7 (A) Interference with Enforcement Proceedings
(B) Right to Fair Trial
(C) Unwanted Invasion of Personal Privacy

**Tables** 



Table 1
Summary of Analytical Program for Samples Collected from 523 Dove Way
Social Circle, Georgia

			Labor Measur	•			
Sample Name	Depth (feet)	Sample Date	Arsenic and Lead Field Measurement	Metals	hH	Comments	
Front Yard Samples				,			
SCSB-523DW-1	0-0.5	08/23/05	X	X	X	Combination (composite) surface soil sample of five locations from the front yard.	
SCSB-523DW-1	0.5-2	08/23/05	Χ -	X	$\mathbf{X}$	Soil sample collected from the front yard	
SCSB-523DW-1	2-4	08/23/05	. X	X	X	Soil sample collected from the front yard	
SCSB-523DW-1	4-6	08/23/05	X			Soil sample collected from the front yard not analyzed because arsenic and lead in the 2-4 foot interval were below USEPA screening levels.	
SCSB-523DW-1	6-8	08/23/05	· X			Soil sample collected from the front yard not analyzed because arsenic and lead in the 2-4 foot interval were below USEPA screening levels.	
Back Yard Samples							
SCSB-523DW-2	0-0.5	08/23/05	X	$\mathbf{X}$	X	Combination (composite) surface soil sample of five locations from the back yard.	
SCSB-DUP-1	0-0.5	08/23/05		X	X	Duplicate sample of SCSB-523DW-2 (0-0.5)	
SCSB-523DW-2	0.5-2	08/23/05	X	X	X	Soil sample collected from the back yard	
SCSB-523DW-2	2-4	08/23/05	Χ .	X	X	Soil sample collected from the back yard	
SCSB-523DW-2	4-6	08/23/05	X	-		Soil sample collected from the back yard not analyzed because arsenic and lead in the 2-4 foot interval were below USEPA screening levels.	
SCSB-523DW-2	6-8	08/23/05	Х	· .		Soil sample collected from the back yard not analyzed because arsenic and lead in the 2-4 foot interval were below USEPA screening levels.	

# Notes:

- 1. Samples depths are measured in feet below ground surface.
- 2. Laboratory measurements were performed by TestAmerica, Inc. of Nashville, Tennessee.
- 3. Sample locations are shown on Figure 1.

Table 2 Summary of Analytical Results for Detected Metals in Soil Samples Collected from 523 Dove Way Social Circle, Georgia

•.			Concentration in Sample:						
• •		•	SCSB-523DW-1	SCSB-523DW-1	SCSB-523DW-1	SCSB-523DW-2	SCSB-523DW-2-DUP		
•	Screening		0 - 0.5 ft bgs	0.5 - 2 ft bgs	2 - 4 ft bgs	0 - 0.5 ft bgs	0 - 0.5 ft bgs		
Analyte	Level	Units	8/23/2005	8/23/2005	8/23/2005	8/23/2005	8/23/2005		
Metals									
Aluminum	76000	mg/kg	21200 J	25700 J	25500 J	9260 J	12800 J		
Arsenic	27	mg/kg	3.83	4.18	4.98	3.54	5.49		
Barium	5400	. mg/kg	62.9	69	58.8	40.1	49		
Beryllium	150	mg/kg	0.258 J	0.329 J	1.17 U	1.11 U	1.12 U		
Cadmium	37	mg/kg	0.322 J	0.329 Ј	0.445 J	0.241 J	0.288 J		
Calcium	. <b></b>	mg/kg	437	358	332	233	255		
Chromium	210	mg/kg	20.2 J	23.1 J	28.8 J	19.1 J	18 J		
Cobalt	900	mg/kg	5.2	7.85	2.64	4.02	4.34		
Copper	3100	mg/kg	16.7 J	20 J	21.8 J	7.74 J	9.21 J		
Iron	23000	mg/kg	22400 J	271007J	: 34300iJ⊕	13700 J	15500 J		
Lead	400	mg/kg	13.6	13.9	17.6	8.2	10.3		
Magnesium		mg/kg	1200 J	1630	918	885	1100		
Manganese	1800	mg/kg	158	181 J	156 J	111 J	136 J		
Mercury	23	mg/kg	0.111 U	0.0446 J	0.057 J	0.0401 J	0.112 U		
Nickel	1600	mg/kg	6.06	7.42	5.15	5.53	15.8		
Potassium	· ·	mg/kg	1610	2100	1350	976	1250		
Selenium	390	mg/kg	2.04 J	2.39 UJ	2.34 UJ	2.22 UJ	2.46 J		
Vanadium	. 78	mg/kg	41.9 J	.51.2 J	62.8 J	25.9 Ј	29.7 J		
Zinc	23000	mg/kg	- 39.8	39.4	32.8	19.7	23.4		
Miscellaneous				•					
% Dry Solids		%	90	83.8	82.2	90.2	. 89.4		
pН	•	pH Units	5.5	5.1	6.0	5.7	5.7		

# Notes:

bgs - below ground surface

J - estimated value

mg/kg - milligrams per kilogram U - not detected

-- no screening level Shaded value exceeds the screening level

Table 2
Summary of Analytical Results for Detected Metals in Soil Samples Collected from 523 Dove Way
Social Circle, Georgia

				. <b>C</b>	oncentration in Sample:
Analyte	Screening Level	Units	SCSB-523DW-2 0.5 - 2 ft bgs 8/23/2005	SCSB-523DW-2 2 - 4 ft bgs 8/23/2005	
Metals			<del></del>		
Aluminum	76000	mg/kg	12100 J	14300 J	
Arsenic	27	mg/kg	5.28	2.97	
Barium	5400	mg/kg	43.9	38.7	
Beryllium	150	mg/kg	1.19 U	1.27 U	·
Cadmium	37	mg/kg	0.38 J	0.525 Ј	
Calcium	·	mg/kg	322	. 286	
Chromium	210	mg/kg	20.6 J	42.8 J	
Cobalt	900	mg/kg	7.3	1.87	
Copper	3100	mg/kg	9.72 J	13.3 J	
Iron	23000		25000 J	6-16-11-35700 J. T. S	
Lead	400	mg/kg	13.4	9.72	
Magnesium	·	mg/kg	393	698	
Manganese	1800	mg/kg	244 Ј	72 J	
Mercury	23	mg/kg	0.0569 Ј	0.0639 J	
Nickel	1600	mg/kg	2.85	11.5	
Potassium	·	mg/kg	400	810	
Selenium	390	mg/kg	4.09 J	3.02 J	
Vanadium <sup>'</sup>	78	mg/kg	38 J	54 J	
Zinc	23000	mg/kg	. 16	16.8	
Miscellaneous		•			
% Dry Solids		%	84.3	78.8	
pH ·		pH Units	5.5	5.3	

# Notes:

bgs - below ground surface

J - estimated value

mg/kg - milligrams per kilogram

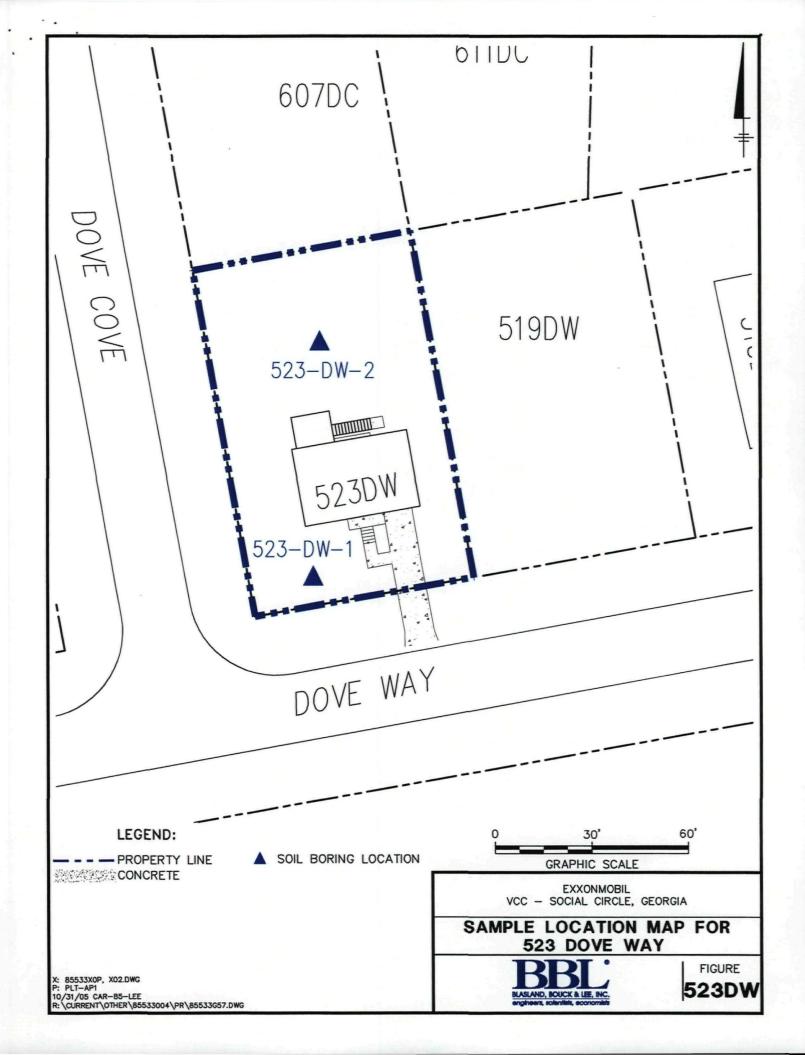
U - not detected

-- no screening level

Shaded value exceeds the screening level

**Figure** 





# **Attachment**



# Attachment 1 Photographs of 523 Dove Way Social Circle, GA



523 Dove Way, southern edge looking north.



523 Dove Way, northern edge looking south.

Releasable Pauline Anderson

| | Pauline Anderson |

With redaction per Exemptions 6 and 7(C)